Dall, W. H.

Alaska

PLANTÆ ALASKANÆ.
U. S. COAST SURVEY, W. H. DALL'S EXPLORATION.
No.
Hab.
Coll. M. W. Harrington, 1871-72.

Thal[illegible] An imperfect specimen, with young fruit.

Thalictrum sparsiflorum Turcz., with unripe carpels a little longer than in genuine specimens, and more or less concave on the back

Anemone Richardsonii Hook.
Anemone parviflora Michx.
Anemone narcissiflora L.
Ranunculus aquatilis L. var trichophyllus
Ranunculus heterophyllus Weber.
Ranunculus hyperboreus Rottb. var. orientalis. Ledeb.)
Ranunculus Nelsonii Gray, in Proc. Am. Acad. 8. p. 375. And a larger-flowered form, approaching R. occidentalis
Ranunculus occidentalis Nutt. in flower only
Caltha palustris L.
Coptis trifolia Salisb.
Aconitum delphinifolium DC.
Aconitum Kamtschaticum Pall.
Actæa spicata. L.
Papaver nudicaule L.

Parrya macrocarpa R. Br. var. aspera Hook
Nasturtium palustre DC
Barbarea vulgaris L.
Arabis Gerardi Besser, var. borealis, Regel. (A. Eschscholtziana Andrz.
Arabis petraea var. ambigua Regel.
Cardamine hirsuta L.
Draba borealis DC. ~~a single specimen in flower~~, the same as D. Unalaschkiana Hook: and specimens in fruit.
Draba nivalis Liljeb.
Draba grandis DC.; ~~var. siliquosa~~. Kotte=wok. Sk. Fl. Alaska. In fruit, and a specimen in flower from the Shumagin Islands: "flowers yellow." Some have ovate pods, others with oblong pods ~~belong~~ to the var. siliquosa.

Cochlearia oblongifolia DC.

Viola Langsdorffii, Fischer in DC. Beautiful specimens.

Claytonia sarmentosa C. A. Meyer. (C. Chamissonis DC. non ~~Ledb~~ Ledeb.
Claytonia Ivanneana Roem. & Schult. From Unalaschka; apparently this species, yet it may possibly a large form of C. sarmentosa.

It extends to California, being the "C. oblongifolium" in Pacif. R. R. Rept. 4. p. 70, and is first cited C. stellarioides Lessing in DC. Prodr.

Claytonia Sibirica L.
Claytonia Chamissonis Eschsch.
Montia fontana. L. var. lamprosperma Ledb.
Silene acaulis L.
Lychnis apetala L.
Arenaria (~~Adenaria~~ Ammadenia) peploides, L. & var. oblongifolia
Arenaria (Moehringia) lateriflora L. & very small form
Arenaria arctica Stev.
Arenaria verna. L. var. hirta.
Sagina Linnaei. Presl
Stellaria crispa, Bongard.
Stellaria borealis Bigelow.
Stellaria crassifolia Ehrh.?
Stellaria humifusa Rottb.
Stellaria media L
Cerastium vulgatum. var. Beeringianum Fenzl.
Cerastium pilosum Ledeb. (C. Ledebourianum Seringe in DC.) (Unalaska, where it has not been detected before. The fruiting specimens have the capsule often more than twice the length of the calyx, and the 10 teeth are straight and erect, with margins revolute, not at all circinnate-revolute. The related C. maximum L. ~~nearly var. falcatum~~ was collected on the Yukon River, as I find from a specimen ~~in~~ received from Dr. Torrey.

Geranium erianthum DC.
Lupinus Nootkatensis Donn. The ordinary form, villous with long hairs. Also a little of the plant from Unalaschka, referred to by Ledebour, in Flora Rossica, with only short appressed hairs. — which is doubtless the high-northern L. perennis, Hook. Fl.

Lathyrus maritimus Bigelow
Astragalus alpinus L
Astragalus frigidus, Gray.
Oxytropis Uralensis var. arctica Ledeb.
Rubus Chamaemorus L.
Rubus ~~arcticus L.~~ stellatus Smith
Rubus spectabilis Pursh.
Dryas octopetala L.
Geum macrophyllum, Willd.
Geum (Sieversia) glaciale Fisch.
Geum (Sieversia) Rossii DC. var. humile.
Geum (Sieversia) calthifolium Smith
Potentilla Anserina L.
Potentilla fragiformis, Willd. ~~villosa Pursh.~~ St. Pauls Isl.; and var. villosa, Reg. & ~~Til~~ Til., (P. villosa, Ph.)
Potentilla palustris Scop
Sanguisorba Canadensis L.
Rosa Cinnamomea L. ?

Tellima grandiflora R. Br.
Heuchera glabra Willd
Leptarrhena pyrolifolia R. Br.
Saxifraga serpyllifolia Pursh*

---

* These good specimens suffice to settle the question in respect to the Saxifrage of the alpine region of the Colorado Rocky Mountains, which in Parry's collection I referred doubtfully to *S. Hirculus*, and in that of Hall & Harbour rather to *S. serpyllifolia*. It is clearly not that. *S. serpyllifolia* is more slender; the flowers apparently always solitary, smaller, and the petals light yellow; the calyx not reflexed even in fruit; cells of the anther parallel; ovary partly immersed in a disk, its base adnate to the base of the calyx; capsule more distinctly 2-horned at summit, the apex of the horns narrow and styliform. The Colorado plant is ~~equally distinct~~ also distinct from *S. Hirculus* by the following characters:–

Saxifraga Hirculus L. A dwarf form:

Saxifraga chrysantha n. sp. Caudiculis perennantibus caespitosis diapensioideo-foliatis cum stolonibus filiformibus; foliis spathulatis seu lineari-spathulatis obtusissimis nitidulis glabris (lin. 2-3 longis) basi sensim angustata sessilibus, caudiculorum crebre rosulato-imbricatis; caulibus floriferis scapiformibus 1-4-foliatis (1-2-pollicaribus) 1-2-floris glabris vel superne calyceque reflexo glanduloso-hirsutulis; petalis ovalibus basi ecallosis late aureis supra unguem truncatis vel subcordatis; ovario et capsula late ovatis apice breviter bilobis; seminibus oblongis striolatis nitidis. *S. Hirculus* ~~no. 164 & 166 Parry,~~ Gray in Sill. Journ. 23. p. 409 (no. 164, 166 coll. Parry), non Linn. *S. serpyllifolia* Gray in Proc. Acad. Philad. (coll. Hall & Harbour), 1863. p. 62. High alpine region of the Rocky Mountains in Colorado, Parry, Hall & Harbour, Canby, Vasey, Greene, &c., especially abundant on ~~Grays~~ Torrey and Grays Peak at 11-14 000 feet, its golden flowers close

Saxifraga flagellaris. Willd.

to the sward, more brilliant than those of the equally abundant Geum Rossii. S. Hirculus itself grows in South Park, at much less elevation, where it fully resembles the Arctic American and European plant.

Saxifraga bronchialis Linn.
Saxifraga oppositifolia L.
Saxifraga punctata L.
Saxifraga nivalis L.
Saxifraga bracteata Don. At least it is the plant collected by C. Wright on Arakamtchechene Island in Behring Straits. It is ~~near~~ new to American territory, and was collected both on the Shumagin Islands and Unalashka, both a small and a large and characteristic form.

Silene
Saxifraga sileniflora Sternb.
Chrysosplenium alternifolium L.
Parnassia Kotzebui, Cham. & Schlecht
Parnassia palustris L.
Sedum Rhodiola L.
Hippuris vulgaris L.
Hippuris maritima Steller.
Epilobium angustifolium L. a remarkably broad-leaved variety.
Epilobium latifolium L.
Epilobium ~~roseum Schreb.~~ affine Bongard.
Epilobium origanifolium Lam., varietas.
Circæa alpina L.

Ligusticum Scoticum L.
Conioselinum Fischeri; the northwestern plant
so called.
Archangelica Gmelini DC.
Heracleum lanatum Michx.
Cornus Suecica L.
Cornus Canadensis L. var. (C. Unalaschensis).

Sambucus racemosa L.
Linnæa borealis, Gronov.
Galium Aparine L.
Galium triflorum Michx.
Valeriana capitata Pallas
Nardosmia frigida Hook.
Aster peregrinus Pursh.
Aster salsuginosus, Richards.
Aster Sibiricus L, & var.
Solidago Virgaurea, L. var. multiradiata
Torr. & Gray
Achillea Millefolium L. var.
Leucanthemum arcticum DC.
Matricaria discoidea DC.
Artemisia Tilesii, Ledeb.
Artemisia arctica Less. Two forms.
Antennaria Margaritacea R. Br.
Antennaria alpina Gaertn.

Arnica Chamissonis Less.

Arnica Unalaschensis Less. Also collected by Dr. Kellogg.

Arnica obtusifolia Less., ex char. Very like A. montana.

Senecio resedæfolius Less.

Senecio Pseudo-Arnica Less.

Taraxacum ~~officinale~~ Dens-leonis Desf.

Nabalus alatus Hook.

Hieracium triste Willd.

Campanula dasyantha Bieb.

Campanula lasiocarpa Cham.

Campanula heterodoxa DeVest.

Campanula uniflora L.

Vaccinium Vitis Idæa L.

Vaccinium uliginosum L.

Vaccinium parvifolium Smith

Vaccinium ovalifolium Smith

Arctostaphylos alpina ~~Spreng~~

Arctostaphylos Uva-Ursi, Spreng.

Cassiope lycopodioides Don.

Andromeda polifolia L.

Bryanthus Aleuticus Gray, Proc. Am. Acad. 8. p. 368.

Loiseleuria procumbens Desv.

Ledum palustre L.

Rhododendron Kamtschaticum Pallas.

Pyrola minor L. Single specimen from Shumagin Isld.

Pyrola rotundifolia L. var. with flesh-colored and red flowers.

Primula nivalis Pall. Single specimen in fruit; probably from Unalaska.

Primula borealis Duby

Primula cuneifolia Ledeb.

Androsace Chamaejasme Koch.

Trientalis Europaea L. var. arctica Ledeb.

Pinguicula macroceras Cham.? but spur shorter,

Pinguicula microceras Cham.? Like P. villosa but with a short spur.

(Gentiana tenella L., a very leafy form, St. Paul's Island, Mr. Elliott

Gentiana Amarella L. (G. acuta Michx. &c)

Gentiana prostrata Haenke

- Gentiana frigida Haenke, var. algida, Ledeb. New to Alaska; collected only on Nagai, one of the Shumagin Islands

Swertia perennis L., var. obtusa Ledb.

Menyanthes trifoliata L.

Polemonium cærulemm L. and var. acutiflorum Ledeb.

Polemonium humile Willd.

Romanzovia Unalaschkensis Cham. This is the first time this species has come to hand.

Mertensia maritima Don
Eritrichium plebeium A. DC
Boschniakia glabra, C. A. Meyer.
Mimulus luteus L.
Veronica serpyllifolia L.
Veronica alpina, L.
Veronica Stelleri, Pall.
Euphrasia officinalis var.
Rhinanthus Crista-galli L.
Castilleia pallida Kunth; two forms
Pedicularis Chamissonis Stev.
Pedicularis verticillata L.
Pedicularis capitata Adams.
Pedicularis Langsdorffii Fischer; ~~a little~~,
~~out of flower~~
Pedicularis lanata Willd.

Gymnandra Gmelini Cham. & Schlecht.
Galeopsis Tetrahit. L.
Brunella vulgaris ~~L~~
Plantago maritima L.
Plantago macrocarpa Cham. & Schlecht.
Armeria vulgaris, var. arctica Cham.

Oxyria reniformis Hook
Rumex domesticus Hartm.
Polygonum viviparum L.
Kœnigia Islandica L

Empetrum nigrum L.
Betula glandulosa Mx.
Alnus viridis, var. sinuata Regel.
Salix arctica Pall.
Salix Pallasii, + vars. obcordata, grandifolia. &c
Salix speciosa Hook. Var. Alaxensis Anders.
Salix fuscescens Anders. single specimen
from Shumagin Island
Salix reticulata. L.
S. rotundifolia Trautv. [illegible] forms, [illegible]
Abies Menziesii, Smith (A. Sitchensis
Bongard) Cult. on Unalaschka.

Sparganium minimum Bauhin.
Phyllospadix Scouleri Hook.? Male.
Triglochin maritimum L.
Orchis aristata Fischer. O. latifolia var.
Beeringiana Cham. & Schlecht
Habenaria obtusata Richards
Habenaria dilatata Gray.
Habenaria bracteata R.Br.
Spiranthes Romanzoviana Cham.
Iris setosa Pall.
Streptopus amplexifolius DC
Fritillaria Kamtschatkensis. Fisch.
Lloydia serotina Reichenb.
Veratrum album L.
Tofieldia coccinea Richards.

Juncus Balticus L.
Juncus arcticus Willd.
Juncus biglumis L.
Juncus triglumis L.
Juncus falcatus E. Meyer.
Juncus Mertensianus Bong.
Juncus xiphioides E. Meyer.
Luzula parviflora DC. and the small form L. spadicea DC.
Luzula campestris DC.
Luzula arcuata Wahl. var. hyperborea, Ledeb.
Scirpus caespitosus L.
Eriophorum latifolium Hoppe
Eriophorum angustifolium Roth.
Eriophorum Chamissonis C. A. Meyer.
Eriophorum russeolum Fries. New to the region.

Hordeum pratense L.
Elymus mollis Bongard
Festuca ovina L. var. violacea Gaud.
Festuca rubra L. var. Baikalensis, Ledeb. – and varieties with hairy spikelets; with canescent spikelets; ~~and~~ with similar but ~~almost~~ awnless spikelets; and with very villous short-awned spikelets
[illegible] Aleutensis Trin.
Bromus subulatus, Griseb. (Festuca subulata Bong.)
Poa stenantha Trin.? A form which accords with "P. rupicola Trin, in herb. Cham."; and the same viviparous, which accords with a viviparous "P. stenantha" from Sitcha.
Poa annua L.
Poa arctica R. Br. ~~Several varieties.~~
Poa caesia Smith? several forms
Poa [illegible]
Poa angustata R. Br.
Poa glumaris Trin.
Poa [illegible] glumaris and alpina
Glyceria (Atropis) maritima, Reichb.
Graphephorum (Arctophila) fulvum Gray

Hierochloa borealis, R. & S.
Hierochloa alpina, R. & S.
Phleum alpinum L.
Alopecurus alpinus L.
Trisetum sesquiflorum Trin.
Trisetum subspicatum Trin; var. molle.
Gray
Aira (Vahlodea) atropurpurea Wahl.;
from which Aira latifolia Hook, hardly
differs.
Aira (Deschampsia) Bottnica Wahl.
Aira (Deschampsia) cæspitosa, L. –, with
varieties referable to A. brevifolia, &
its var ~~excu~~ exserens.

Calamagrostis Langsdorffii Trin.
Calamagrostis strigosa Bong.; apparently
the true plant.
Calamagrostis stricta Trin.
Calamagrostis Aleutica Bong.
Vilfa (Arctagrostis Griseb.) arundinacea
Trin., which surely is not a
variety of Colpodium latifolium.
Agrostis exarata Trin
Agrostis geminata Trin

Equisetum arvense L.
Equisetum hyemale L.
Adiantum pedatum L.
Allosorus acrostichoides Spreng. var. (A. foveolatus Ruprecht.
Cystopteris fragilis Bernh., a form ~~nearly~~ approaching ~~identical~~ with C. Douglasii Hook. of the Sandwich Islands
Asplenium Filix-foemina Bernh.
Aspidium spinulosum Sw.
Aspidium Lonchitis Willd
Aspidium fragrans Sw., sterile.
Polypodium Phegopteris L.
Polypodium Dryopteris L.
Polypodium vulgare L.
Botrychium Lunaria Sw. - one specimen passing toward to B. rutaceum.
Botrychium rutaceum Willd
Lycopodium Selago L.
Lycopodium annotinum L.
Lycopodium clavatum L.
Lycopodium alpinum L.
Lycopodium Sitchense Rupr.
Selaginella spinosa Beauv.

Dall's case,
(recd 1873. - (Jan.)

Anemone narcissiflora L. Chichagoff Harbor
Ranunculus aquatilis L. var. trichophyllus Atka I.
" Eschscholtzii Schlecht
" reptans L. Amchitka I.
" Nelsonii A. Gray Adakh I.
" occidentalis Kyska I.
~~Papaver alpinum L Kyska I.~~
Caltha palustris L. "
Coptis trifolia Salisb. "
Aconitum Napellus L. var delphinifolium Unalaschka
" Kamtchaticum Pall? Adakh I.
Papaver alpinum L. Kyska I.
Nasturtium palustre DC Alaska
Cardamine hirsuta L. Attu I.
Arabis petraea var. Kyska I.
Draba borealis DC. Attu I.
Cochlearia Adakh I.
Viola Langsdorffii Fisch. Amtchitka I. Attu I.
Cerastium alpinum L. var Fischerianum Kyska I
" vulgatum L. var. grandiflorum " "
" pilosum Ledeb. Amtchitka I.
Stellaria borealis Atka I.

Arenaria (~~[illegible]~~ Honkenya) peploides L. Kyska I.
" " " var. oblongifolia Kyska I.
" (Honkenya) latiflora Kyska Harbor
Sagina Linnaei Presl " "
Claytonia arctica Adams? var. Kyska I.
" Sibirica L. Attu I. " " Alaska.
Geranium erianthum DC.
Lupinus Nutkatensis Don var. Unalaschkensis Adakh I.
" " " form with long, soft, white hairs
Astragalus alpinus L Alaska
Lathyrus maritimus Kyska & Attu I.
Spiraea Aruncus L. Attu I. A fragment very young.
Rubus Chamaemorus L. Amchitka I.
" stellatus Smith Kyska I
Geum calthifolium Sm. Attu & Adakh I.
" Rossii Seringe? Kyska I.
Geum anemonoides Willd. Kyska I.
Potentilla fragiformis Willd. Amchitka, Attu, [illegible], Kyska I.
Poterium Canadense Unalaschka.
Leptarrhena pyrolaefolia R.Br. Kyska I.
Saxifraga Davurica Pall. Kyska I
var. flabellifolia R.Br.
" Unalaschcensis Sternb.
A low form 2-4 inches high with very large flowers

Saxifraga (? microphylla, Royle)
Can't help as to this. Appar. distinct
from Royle's plant of which we have
very little.

Saxifraga punctata var.
What is var Nelsoniana? Don't
see it.

Saxifraga punctata L. Attu I. Alaska. ~~a~~
~~a low form hardly 2 inches high wh~~
S. " L. var Nelsoniana Don
Leaves mostly as long as the petioles purplish green
Scapes about twice exceeding the leaves. Flowers
very large, purple.
Saxifraga bracteata Don Kyska & Attu I.
Saxifraga bronchialis L. Attu I.
Saxifraga (S. microphylla Royle vel sp. (prox.)
Heuchera glabra Willd. Alaska
~~Sapr~~ Chrysosplenium alternifolium L. Little Kyska I.
A low form hardly an inch high with thickish
leaves.
Parnassia Kotzebuei Cham. Kyska I.
A low form 2-4 inches high with large flowers; the
sepals exceeding the petals.
Hippuris vulgaris L
Myriophyllum spicatum L. Atka I.
Epilobium angustifolium L. Atka I.
angustifolium? Kyska I.
" luteum Pursh. Alaska
Cornus Canadensis L. Amchitka I. Adakh I.

Cornus Suecica L. Kyska Harbor 2
Ligusticum Scoticum L. Adakh 2
Archangelica Gmelini DC? Alaska. A leaf & umbel only
Sambucus racemosa var. pubens Attu 2.
Linnaea borealis Gronov. Amchitka 2.
Galium Aparine L. Amchitka 2., Alaska
Gnaphalis (Antennaria) Margaritacea. Ounalaschka.
Solidago (Virga aurea) multiradiata "
Hieracium triste Willd. Adakh 2 Amchitka 2
Leucanthemum arcticum DC Kyska 2. "
Aster peregrina Pursh " Harbor, Ounalaschka
Antennaria dioica Gaertn? Kyska 2. Involucral scales of
5 capitula very narrow & acute in A. alpina?
Achillea millefolium L. Kysk 2. Adakh 2.
Artemisia Tilesii Ledeb. Amaknak 2.
Arnica Unalaschensis ~~[illegible]~~ Less. Kysk. 2. Amchitka 2.
Senecio pseudarnica Less. Aleutian 2.
Taraxacum ceratophorum DC. Kyska 2.
Campanula linifolia Lam. var heterodoxa. Popoff 2.
" lasiocarpa Cham. Ounalaschka
" " A much smaller form 1-3 in. high.
Amchitka 2.
" " dasyantha Bieb. Attu 2.

Mem. for A. Gray. 1/74
Veronica aphylla. var. grandiflora
Coll. Dall. — Looks distinct enough
as dist. from aphylla.

Rhododendron Kamtschaticum Pall. Adakh I.
Loiseleuria procumbens Desv. Kyska & Attu I.
Cassiope lycopodioides Don. Kyska & Adakh I.
Bryanthus Aleuticus Gray. Kyska, Igognak, Amaknak Is.
Vaccinium uliginosum L. Kyska I.
" parviflorum Smith. Attu I.
" vitis-Idaea L. Kyska Harbor.
Pinguicula macroceras ~~Cham.~~ Willd. Amchitka & Kyska I.
Primula cuneifolia Ledeb. Attu & Kyska I. Alaska
Trientalis [illegible] L. var. arctica Amchitka & Kyska I.
Armeria vulgaris Willd. var arctica. Igognak I. Unalaschka.
Plantago macrocarpa Ch. & Schl. Attu & Kyska I.
Mimulus luteus L. Popoff St. Shumagin I. Atkha I.
Veronica serpyllifolia L. Amchitka & Kyska I.
" Stelleri Pall. Kyska
" Americana Amchitka I.
" ~~aphylla~~ & ? var. grandiflora Kyska I. two forms
Castilleia pallida Kth.
Rhinanthus crista-galli L. Adakh I.
Pedicularis Chamissonis [illegible] Amchitka & Kyska I.
Mertensia maritima Reich. Amchitka I.
Polemonium coeruleum L. Alaska. A scrap with old capsules

Gentiana acuta Mx. Atka I.
Polygonum viviparum L. Kyska Harbor
" " " Amchitka I. form with thicker
spikes & larger fruit
Salix Pallasii And.? var. Kyska I.
Listera cordata R. Br. Kyska & Adakh I.
Cypripedium passerinum? ~~[illegible]~~ young — no flower
Cypripedium guttatum Sw. Unalaschka.
Orchis aristata Fisch. Attu & Kyska I.
Habenaria bracteata R. B. Kyska I. Amchitka I.
Iris setosa Pall. Kyska I.
Smilacina bifolia Desf. A very small form
Fritillaria Kamtschatcensis Gawl. Kyska I.
Streptopus amplexifolius DC. Kyska & Amchitka I
Osmunda lunaria L. Kyska Harbor. Very small.
Polypodium vulgare L.
Cystopteris fragilis Bernh. Kyska I.
Adiantum pedatum L. Unalaschka
Aspidium spinulosum Sw. Kyska I.
Asplenium filix-foemina Bernh. Unalaschka, Atka I.
Equisetum arvense L Attu & Atka I
Lycopodium clavatum L. Kyska I.
" alpinum ? " " sine fr.

Tofieldia borealis Richard Adakh I.

Luzula campestris DC Atkha & Kyska I.
" parviflora Desv. Kyska I.
" arcuata Wahl?
Juncus arcticus Willd. Amchitka I.
Eriophorum capitatum Hoppe Kyska I
Scirpus caespitosus L. Atkha I.
Eriophorum russeolum
Hordeum pratense L. Amaknak I.
Elymus mollis Trin.
Festuca
Bromus
Poa stenantha Trin. var. vivipara. Kyska I.
" arctica R. Br.
Hierochloa borealis R. & S. Kyska I.
Trisetum subspicatum Trin. " "
Calamagrostis Langsdorffii Trin.
Aira caespitosa Trin Atkha I
Phleum alpinum L. Amchitka.

PLANTÆ ALASKANÆ.

U. S. COAST SURVEY, W. H. DALL'S EXPLORATION. 1874

No.

(The dupl. except lot of Cypripedium guttatum, gone
to Vasey & at
Philad. &c —) to Washington — to divide with Acad.

Coptis trifolia, L. Port Etches

" asplenifolia. Sitka.

Ranunculus aquatilis, L. var. Chiachi Isd

Anemone narcissiflora. Kodiak

Caltha palustris. Kodiak.

Ranunculus occidentalis Nutt. Middleton Isd

Cardamine hirsuta, L. Lituya — Bay + Semidi + Sitka + Semidi Isd

Arabis lyrata Chiachi Isd

Barbarea vulgaris, var. Chignik Bay

Arabis Gerardi var. borealis Regel. Kodiak

Viola Langsdorffiana Port Etches.

Draba borealis Kodiak

Nuphar polysepala, Engelm. Kodiak.

Viola glabella, Nutt.

" palustris. L.

Arenaria arctica. Semidi Isd

Silene acaulis, L. Chignik Bay

Arenaria lateriflora Middleton Isd

Claytonia Sibirica "

Geranium erianthum "

Lupinus Nootkatensis, Sitka.

Oxytropis Uralensis, var. arctica. Chiachi Isd

Dryas octopetala "

Rubus spectabilis. Port Etches
Geum calthifolium "
Rubus stellatus, Situya Bay
" Chamaemorus, L. Sitka
Geum macrophyllum, Kodiak
Epilobium origanifolium "
Fragaria Chilensis. Situya Bay.
Ribes laxiflorum, Sitka
Saxifraga leucanthemifolia. Sitka
" punctata, L.
" bronchialis
Sedum Rhodiola. Semidi Isd
Cornus Suecica, L. "
" Canadensis, L. "
Sambucus racemosa, L. Kodiak
Galium boreale, Chiachi Isd
Aster salsuginosus, Rich. "
Antennaria alpina "
Vaccinium Vitis-Idaea, L. Semidi Isd
" parvifolium Sitka
" ovalifolium, Sm.
" myrtilloides, H. dwarf form
Ledum palustre Chiachi Isds
Pyrola rotundifolia, var. bracteata Chiachi Isds

Kalmia glauca. Port Etches
Rhododendron Kamtschaticum. Chiachi Isds
Plantago macrocarpa, Cham. Middleton Isd
Dodecatheon Meadia, var. frigidum. " & Kodiak
Trientalis Europaea, L. "
Primula borealis, Duby
Pinguicula vulgaris, L. Chiachi Isd
Pedicularis verticillata, L. Kodiak
" capitata, Adams Chiachi Isd
Villarsia crista-galli, Griseb. Chirikoff Isd
Mertensia maritima
Veronica serpyllifolia, L. Kodiak
Castilleia pallida. Semidi Isd
Mimulus luteus, L. Kodiak
Romanzoffia Unalaschkensis, Cham. Chignik Bay
Menyanthes trifoliata, L. Kodiak & Port Etches
Alnus rubra, Bong.
Myrica Gale, L.
Rumex Acetosa? Kodiak
Salix arctica, Middleton Isd
Triglochin maritima
Cypripedium guttatum. Chiachi Isds
Smilacina trifolia, v. occidentalis.
Listera cordata, Lituya Bay

Orchis aristata, Chiachi Isd
Lysichiton Kamtschatcense Sitka
Tofieldia borealis. Chiachi Isd
Fritillaria Kamtschatica Semidi Isd
Luzula campestris. Kodiak
Eriophorum polystachyum. Sitka
Carex Sitchensis? Port Etches
Hierochloe borealis. Kodiak
Aspidium aculeatum,
Blechnum boreale, Port Etches
Aspidium spinulosum "
Polypodium vulgare, Sitka
Lycopodium annotinum Lituya Bay
Equisetum arvense. Sitka
Marchantia
Mosses "

Notes on *Cypripedium guttatum* Schwartz.

by W. H. Dall

Stem 2 or 3-leaved, hirsute, 6–15 in high 1–2 or very rarely 3-flowered. Leaves 2–4 in long, finely hirsute below, smooth above; deep, dull green.

A single small bract at the base of the ovary.

2 anterior sepals slightly separated at the tip: light green with streaks of maroon on edges.

Posterior sepal large, overhanging with the outer side waxen white, the edges and occasionally the nervures touched with dark claret color. Inner side dark maroon with the base of insertion slightly mottled with light yellow, and there thickly set with fine stiff outward pointing hairs.

Petals small and hirsute at the base like the last, then widening and again attenuating toward the tip which is enlarged, rounded, & patulous. Whitish at the base then mottled with dark maroon and with a conspicuous white spot on the patulous tip, edged with maroon

Lip large pocket-shaped, narrow at the insertion, the inner edges folding over one another in front of the column and with a narrow white reflexed inner edge nearly all round the opening. Median line behind and below indented, forming a raphe on the inside which is thickly covered with long thickset hairs pointing toward the base of the column. Flies enter the mouth of the sack attracted by a sticky, sweet viscid secretion of the inside and by the reflexed edge & pointed pairs are obliged to crawl out between the column and the stamen, catching the sticky pollen on their backs, & thus fertilizing the next one they may happen to go into.

Reflexed portion of the lip pure white, interior whitish. Outside claret color more or less mottled with greenish white on the lines of nervation.

Column stout, foursided at base, rounded above. Stigmatic part hoof-shaped rounded on the edge & with a keel behind. Two short small rounded hornlike stamens bearing each a two-celled anther of very gummy pollen. Keeled below, rounded in two kidney shaped lobes above. Incurved & notched in front. Golden yellow behind, above & below, white in front & dotted with specks of maroon. Column greenish white.

Grows on wet hill sides exposed to the sun from 20- to 300 feet above the sea. Distribution in Alaska. Kadiak Id. Aliaska Peninsula, Unalashka Island and some of the islands between Kadiak & Unalashka, especially those near the peninsula. Not detected, though carefully looked for. west of Unalashka, north or east of Kadiak. Flowers in June (15th) to July (20). Gone to seed in August.

Note, yellow water lily most N & W at Kadiak.

Symplocarpus, very large 4 feet high leaves 2 ft wide { Middleton Id.